

CLAIMS

1. A method for registering multiple communication devices in
5 a Session Initiation Protocol (SIP) based communication system
comprising the steps of:

identifying a communication device for registration by
a user for providing an identified communication device;
setting a priority for the identified communication
10 device; and
storing the identified communication device and the
priority corresponding to the identified communication device
in a database.

15 2. The method for registering multiple communication
devices as claimed in claim 1, wherein there is further
included the steps of:

receiving by the communication system an internet
protocol (IP) address from the identified communication
20 device; and
storing the IP address in an entry in the database
corresponding to the identified communication device.

3. The method for registering multiple communication devices
25 as claimed in claim 2, wherein there is further included the
steps of:

setting a registration time of the identified
communication device for registering the identified
communication device of the user; and
30 storing the registration time in an entry in the
database corresponding to the identified communication device.

4. The method for registering multiple communication
devices as claimed in claim 3, wherein there is further
35 included the steps of:

selecting an expiration registration time corresponding
to the identified communication device and based upon a type
of identified communication device; and

storing the expiration registration time in an entry of the database corresponding to the identified communication device.

5 5. The method for registering multiple communication devices as claimed in claim 4, wherein there is further included a step of determining by the communication system whether the identified communication device is currently registered.

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6. The method for registering multiple communication devices as claimed in claim 5, wherein if the identified communication device is currently registered, there is further included steps of:

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changing the IP address for the currently registered identified communication device; and

storing the changed IP address in the entry of the identified communication device in the database.

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7. The method for registering multiple communication devices as claimed in claim 5, wherein there is further included a step of selecting a registration time by the communication system for the database corresponding to the identified communication device.

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8. The method for registering multiple communication devices as claimed in claim 7, wherein there is further included a step of selecting an expiration registration time based upon a type of identified communication device.

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9. The method for registering multiple communication devices as claimed in claim 8, wherein there is further included a step of selecting the expiration registration time for a first type of identified communication device to be a first value.

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10. The method for registering multiple communication devices as claimed in claim 9, wherein:

the first type of identified communication device is a computer; and

the first value is approximately 1 hour.

5 11. The method for registering multiple communication devices as claimed in claim 9, wherein there is further included a step of selecting the expiration registration time of a second value for identified communication device, said second value of being greater than the first value.

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12. The method for registering multiple communication devices as claimed in claim 11, wherein:

the second type of identified communication device is a mobile station; and

15 the second value of expiration registration time is approximately 10 hours.

13. The method for registering multiple communication devices as claimed in claim 11, wherein there is further
20 included a step of selecting the priority of the identified communication device based upon the type of the identified communication device.

14. The method for registering multiple communication
25 devices as claimed in claim 13, wherein there is further included steps of:

selecting a first priority based upon a location of a mobile station or based on a manual registration;

30 selecting a second priority for an automatic registration or re-registration; and

the first priority is higher than the second priority.

15. The method for registering multiple communication
35 devices as claimed in claim 14, wherein there is further included a step of iterating the steps of claims 1 through 14 for each of a plurality of identified communication devices.

16. The method for registering multiple communication devices as claimed in claim 1, wherein there is further included a step of iterating for a plurality of the identified communication devices, the steps of:

- 5 identifying a communication device;
- setting a priority; and
- storing the identified communication device identity and priority.

17. A method for expediting a call to a registered user of multiple communication devices comprising the steps of:

receiving by a network a call to the registered user;
5 accessing an entry of a database for the registered user;

selecting by the network a device description having a highest priority in the entry of the database; and

coupling the expedited call to a communication device
10 of the multiple communication devices having the highest priority.

18. The method for expediting a call as claimed in claim 17, wherein there is further included steps of:

15 for the registered user, determining from the database whether a registration expiration timer has expired; and
if the registration expiration timer has expired, discarding by the network a corresponding entries in the database.

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19. The method for expediting a call as claimed in claim 18, wherein there is further included steps of:

determining by the network whether there is more than one communication device of the registered user having the
25 highest priority; and

if there is not more than one communication device having the highest priority, sending by the network the call to the communication device having the highest priority.

30 20. The method for expediting a call as claimed in claim 19, wherein if there is more than one communication device with the highest priority, there is further included steps of:

selecting by the network a communication device from the database having a most recent registration time; and

35 sending the call to the communication device having the most recent registration time.

21. A database entry for a session initiation protocol (SIP) based communication system having multiple registered devices for a user comprising:

5 an entry in a database for a type of communication device corresponding to the user including:

a first field for indicating an identification corresponding to the type of communication device; and

10 an internet protocol (IP) address field corresponding to the type of the communication device.

22. The database entry as claimed in claim 21 wherein there is further included a priority field for the type of the communication device.

15 23. The database entry as claimed in claim 22 wherein there is further included a registration time field for the type of the communication device.

20 24. The database entry as claimed in claim 23 wherein there is further included an expiration registration time field for the type of the communication device.

25 25. The database entry as claimed in claim 24 wherein there is further included a plurality of entries in the database corresponding to a plurality of types of communication devices for the user.